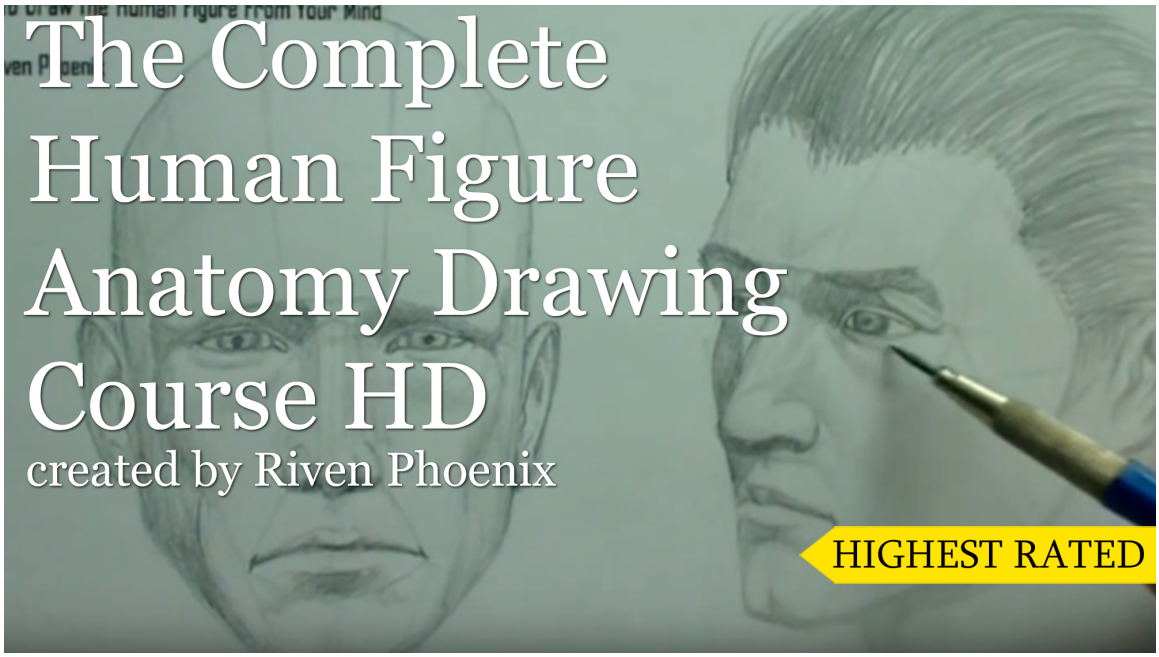

The Structure of Man

Learn to Draw the Human Figure From Your Mind with Riven Phoenix

www.alienthink.com

Figure Drawing Lesson 053 - Formulas of Top View of the invention of Foot

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1		Hey guys, my name is Riven Phoenix and welcome to the structure of man learned to draw
2		the human figure from your mind training course.
3		Okay, so now in the previous lesson we had looked at really the 3D understanding that was
4		required to getting conceptually in the mind as to how the foot is formed, right?

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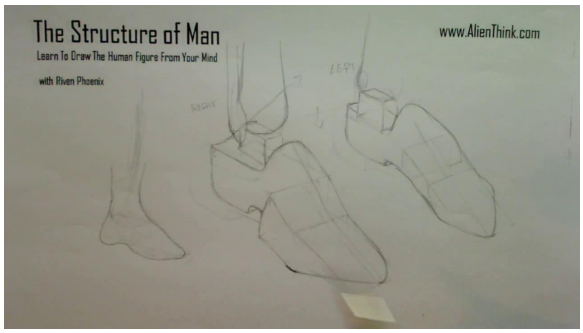
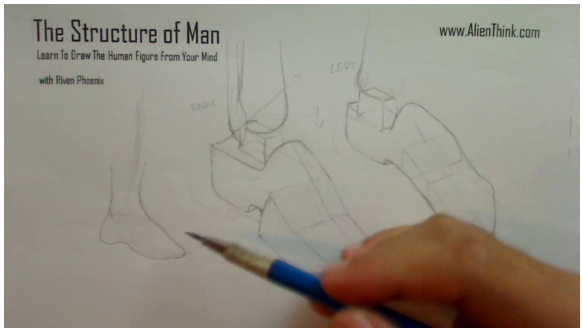
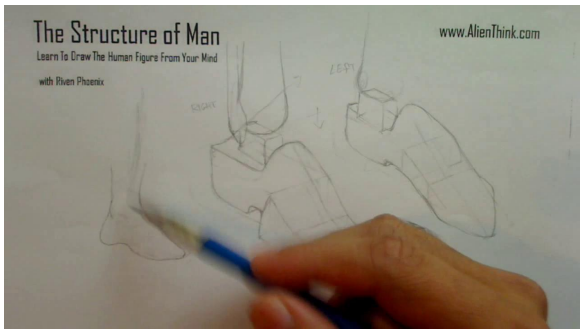
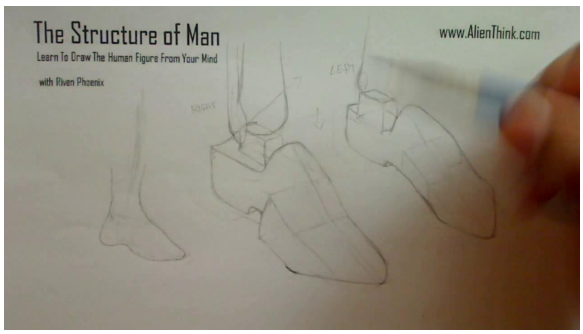
5		So when we're drawing it out, we saw that just having understanding this three-dimensional
6		formula mechanism, we can draw the foot in any way, it is right in here, we proved
7		that here we could just simply do the outline in the end and then put in the toes and stuff.
8		So now we're going to look at the foot from the top down view, right?

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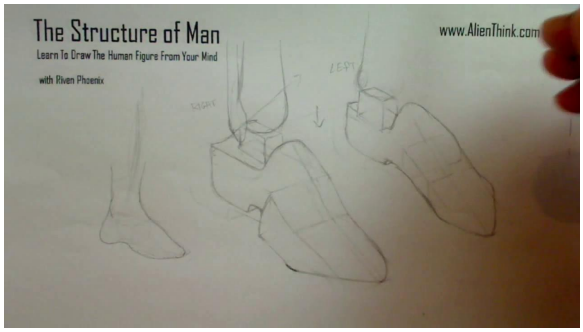
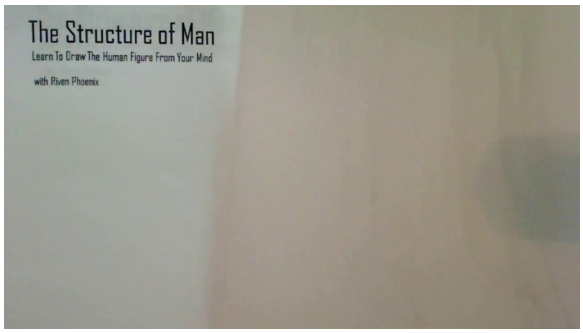
9		So here we want to look at the formulas for this so we can understand what is actually
10		going on here in 3D.
11		So to do that, what we want to do, so here I'm just going to draw a line from here,
12		I'm going to make it over here, right?

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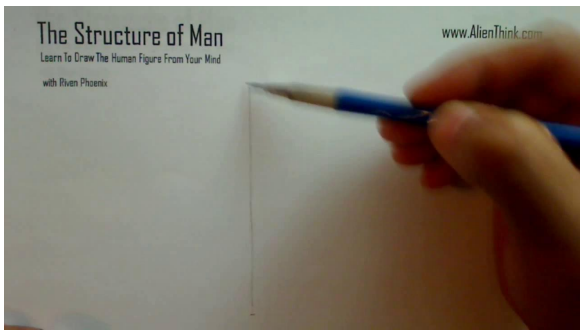
13		So our first rule is that, okay, well, let's first decide how the length of the foot
14		is going to be.
15		So here I'm going to draw out the, just a straight line and I'm going to end it here.
16		So the length of the foot will say, length of the foot would be going in this way.

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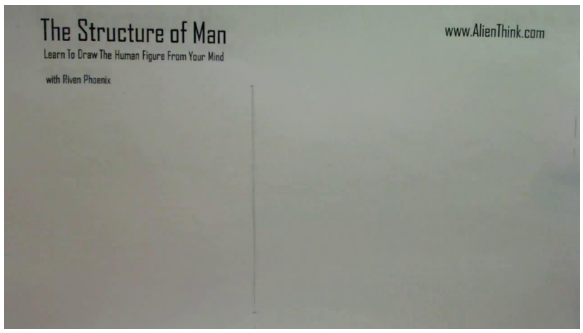
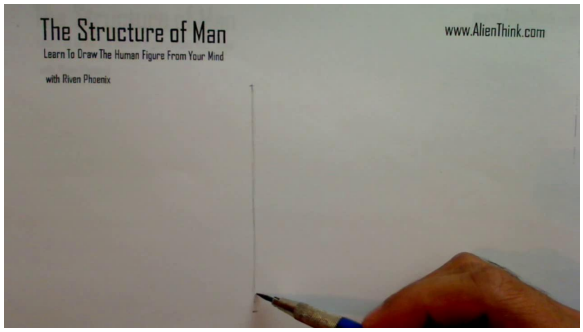
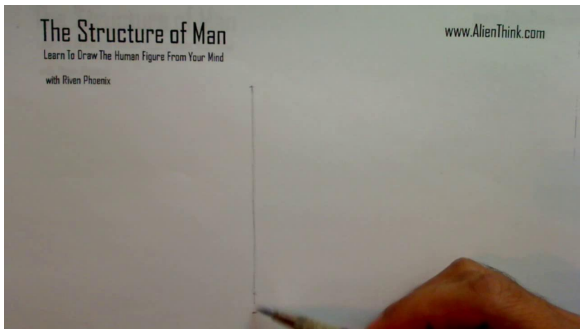
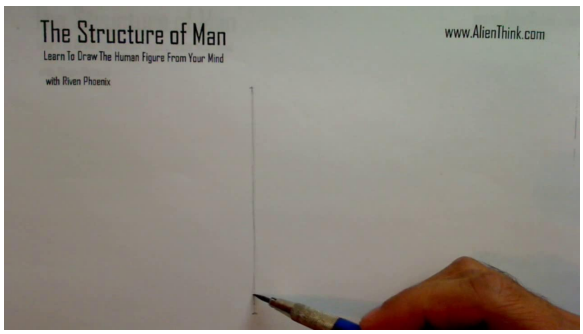
17		We'll say the length of the foot is really just going to be the height of the human head.
18		Here let's say the chain will end over here and just a little more.
19		See how much this nudges?
20		It's just a little more, right?

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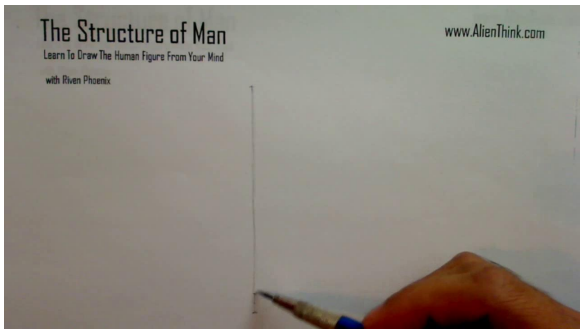
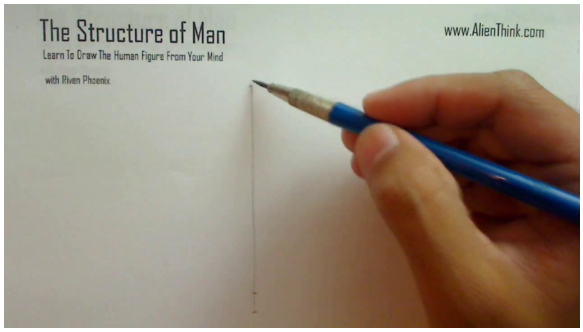
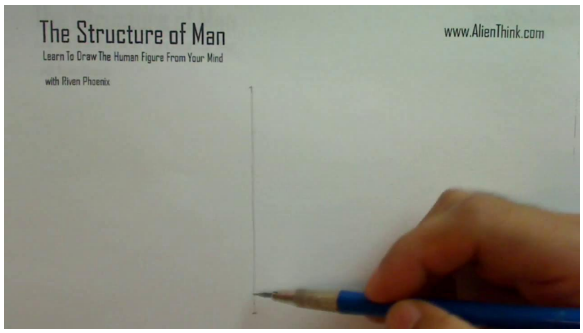
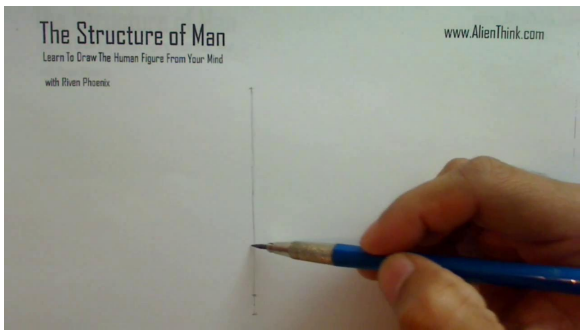
21		So this is like a secret understanding.
22		It's going to be the height of the human head on just a little more and this means that
23		if this was the height of the human head, right?
24		And if we had to, I'm just going to draw this out like the circle over here, let's say

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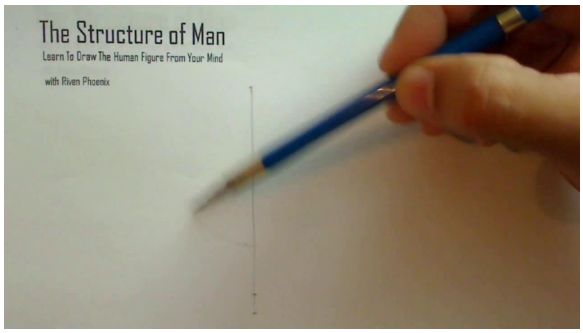
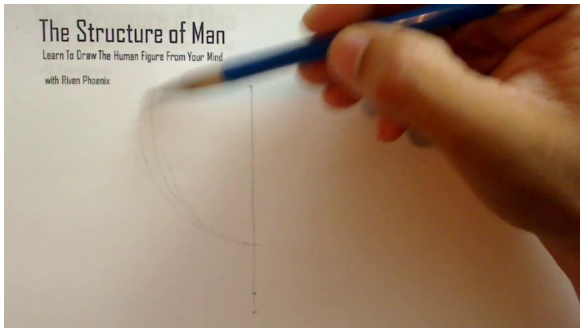
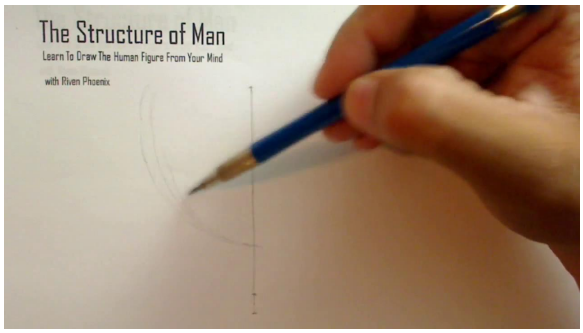
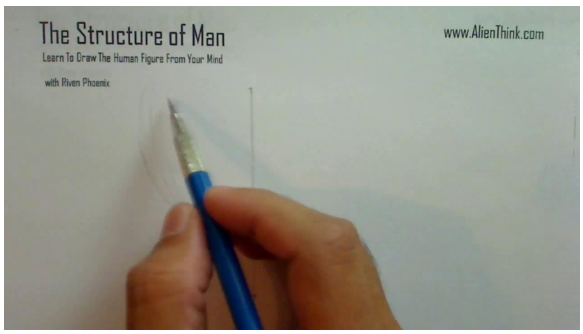
25		if we were right now conceptually trying to do like a circle here for the human head,
26		right?
27		If we're drawing up the human head, we would draw a skull over here, right?
28		So the width is really just going to be the width of the human head and just a little

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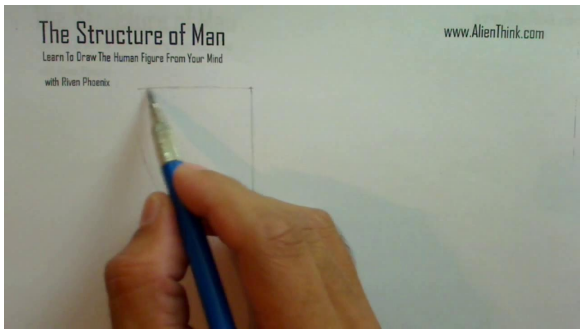
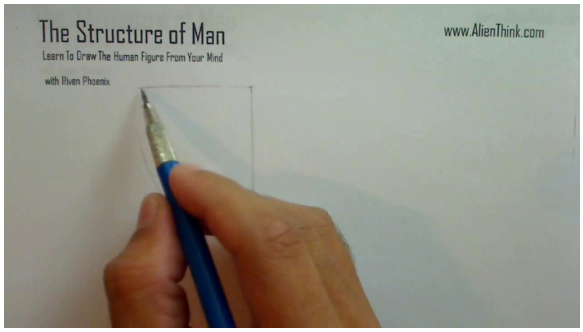
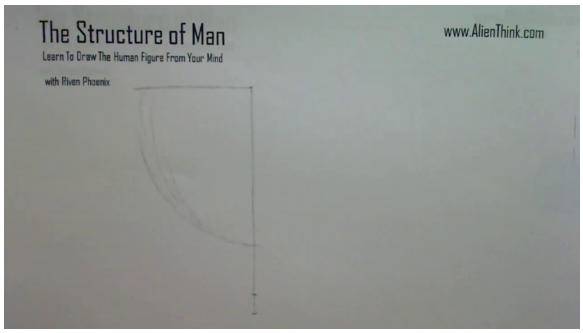
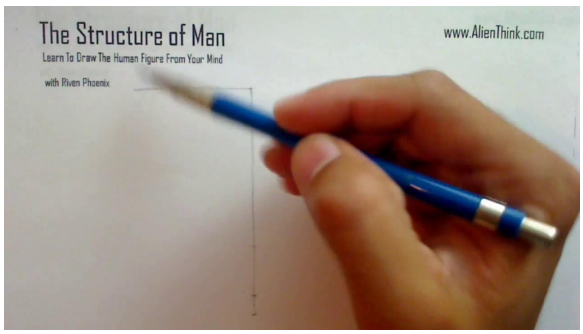
29		more, right?
30		So it's just a nudge, so it's just going to be about here, just like this, right?
31		So we can not erase this line, okay?
32		So it's really just have to be approximate in the end, right?

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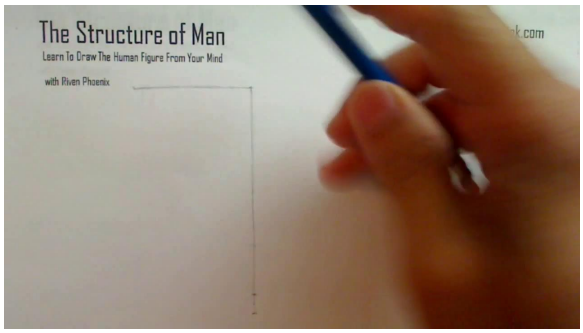
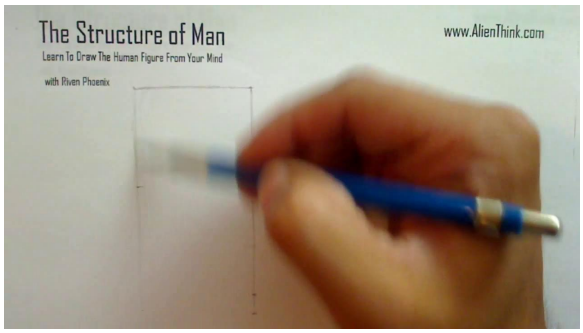
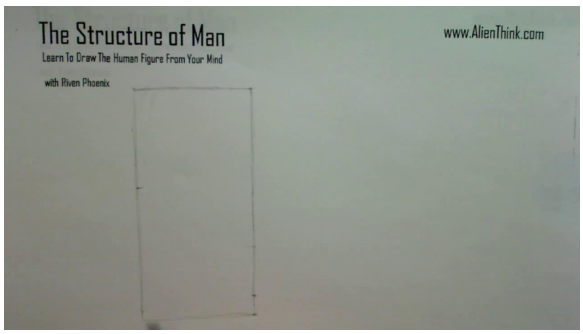
33		So once we get this, we can just make it easy for ourselves to bring this line down here,
34		so it's much more straighter just knowing that we got to hit this line, right?
35		So here we're just going to draw out a rectangle shape over here and then finish this off
36		over here in the bottom, okay?

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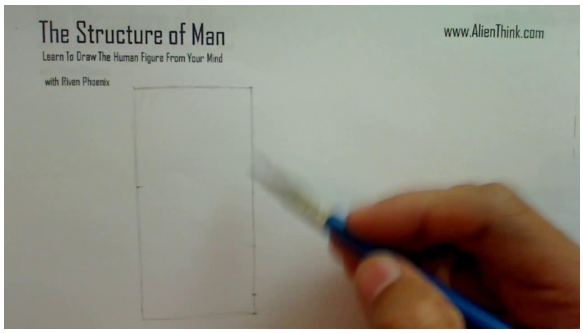
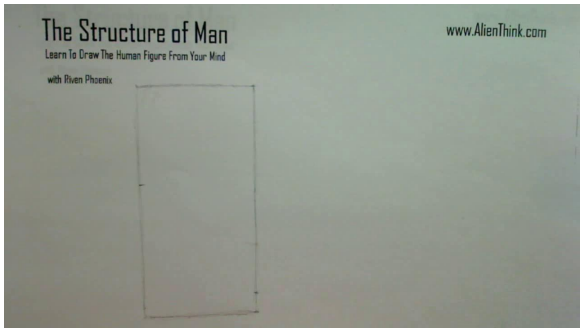
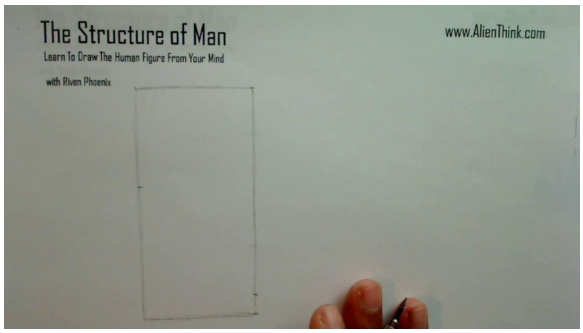
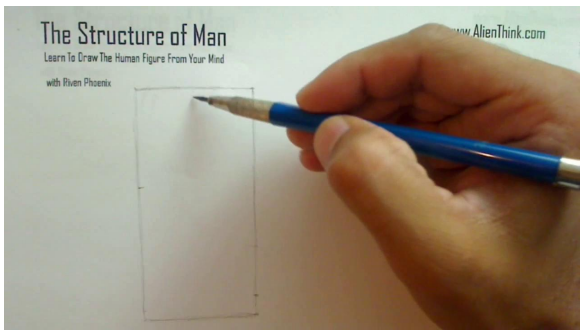
37		So the next idea that we want to do, this camera is just a slightly little bit on the
38		angle, so but this is actually going horizontally straight, it would be like this, right?
39		It's just a little bit on the angle for me, okay?
40		So here we would divide this in half like this, right?

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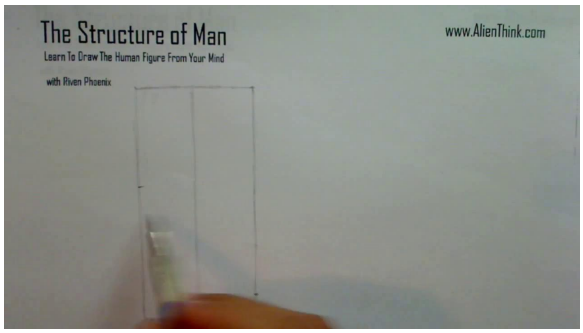
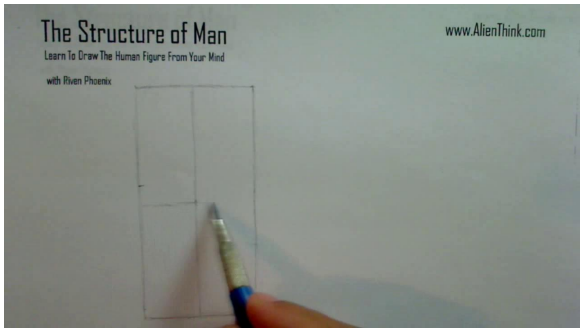
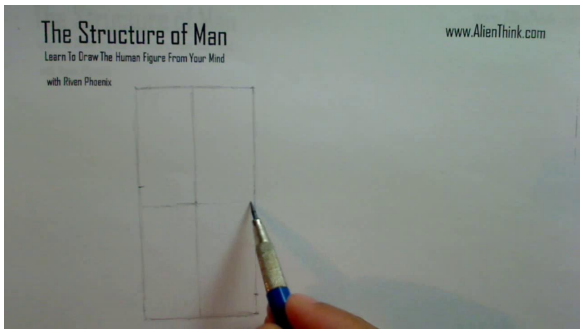
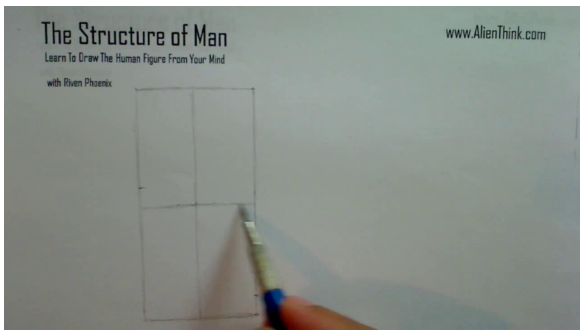
41		And then we're going to really just find the center of this assumption here and then divide
42		this in half.
43		And this formula is going to play a big role, is because it's not that you have to use
44		the formula to draw it out, it's that you just have to envision and how the formula,

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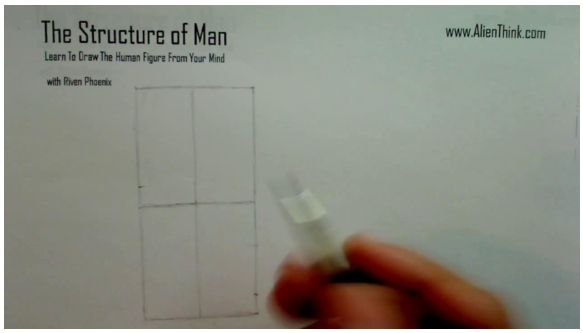
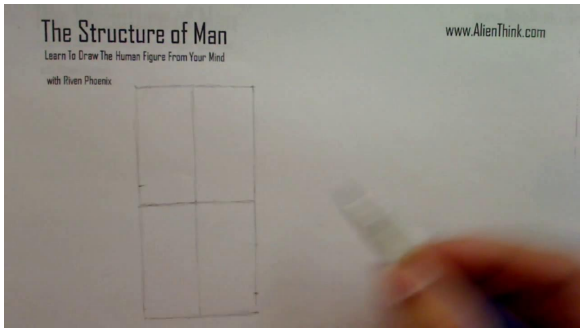
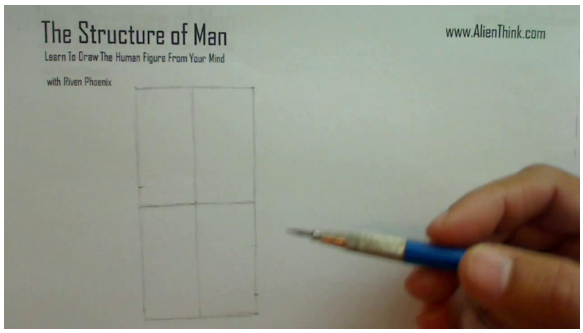
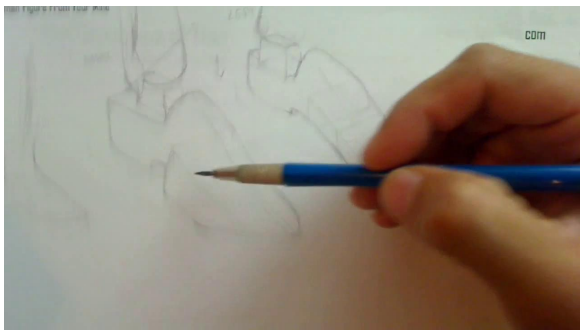
45		like see it on the paper without drawing it to be able to just get the conceptual idea
46		out, right?
47		So what we want to do is we're actually taking a different approach here where we're
48		really just going to take apart this 3D idea and put it onto paper, right?

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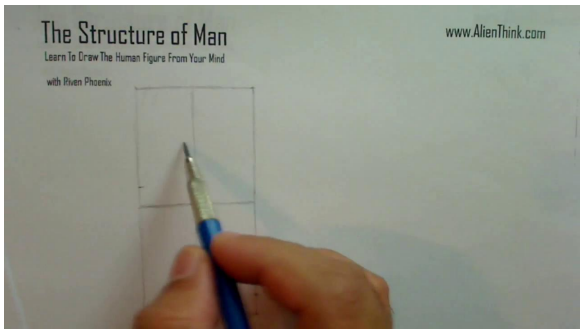
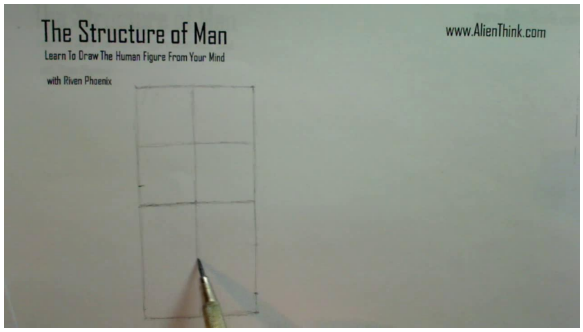
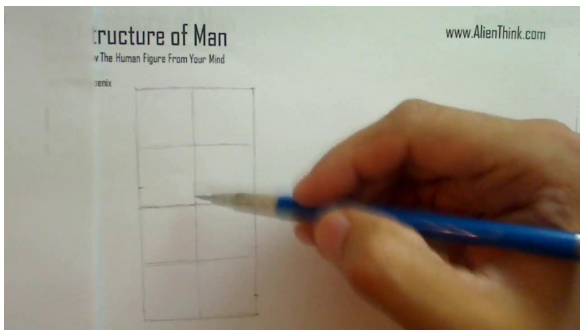
49		So here we're going to now divide this in half again over here like so and then divide
50		this in half about here, okay?
51		So what we want to do is we want to take a look at this nudge over here, right?
52		So in this idea of the formulas we're now going to be looking at the top down view, so basically

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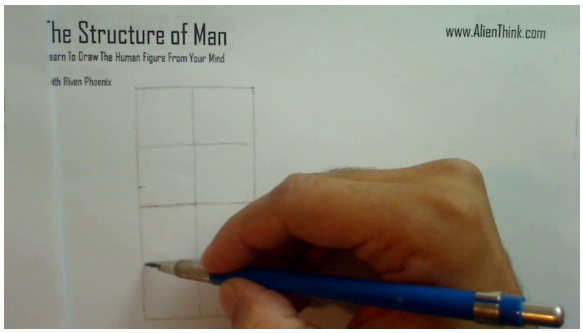
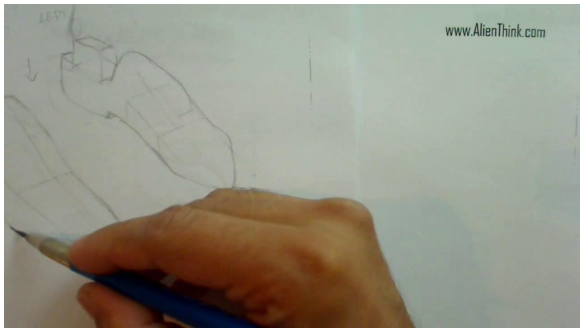
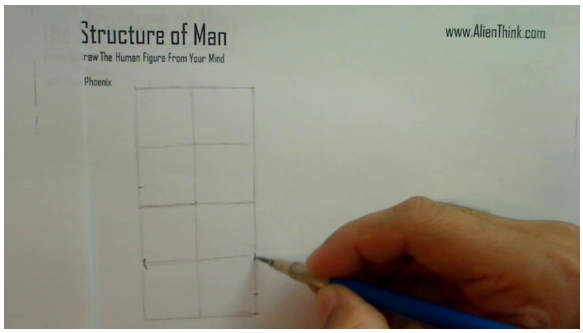
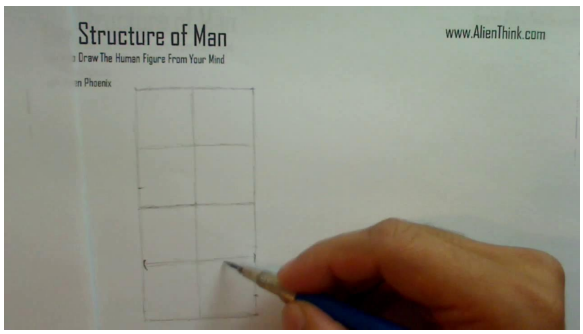
53		this nudge is going to be over here, I'm going to make that as an assumption, right?
54		This is over here and we also know for the other side, for the area of the toe we're going
55		to get another nudge over here, right?
56		So we already had decided that if this was the center we're going to come back over here,

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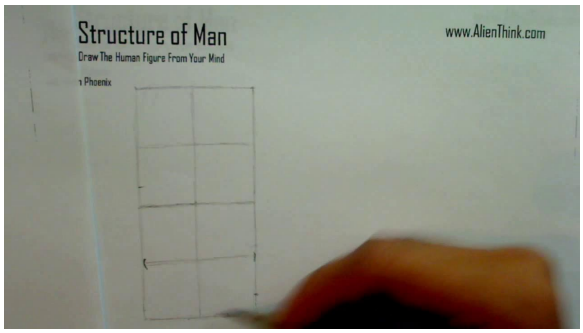
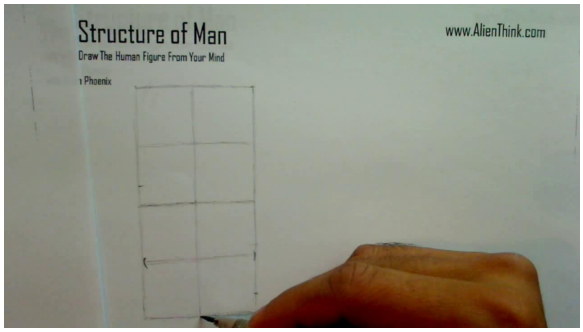
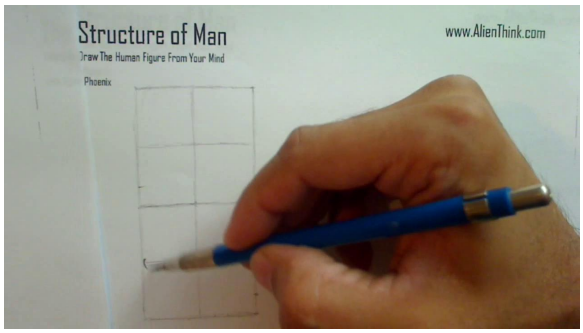
57		right?
58		So if this was from here to here was the center, we're going to come back to the left
59		to make this curve line over here, right?
60		This is the line we're talking about over here, this is what we did.

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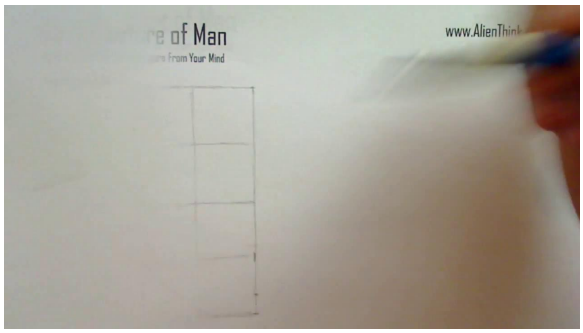
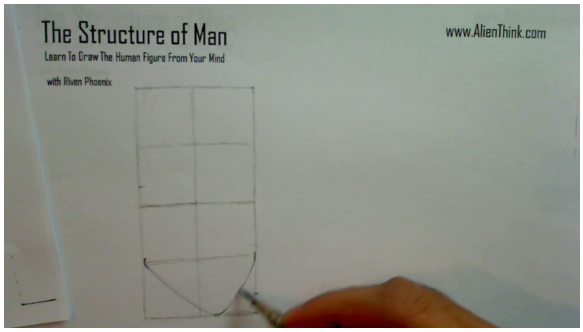
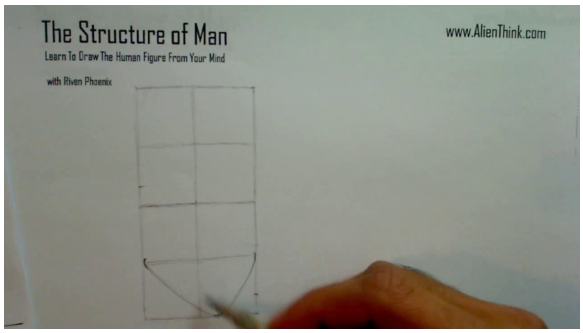
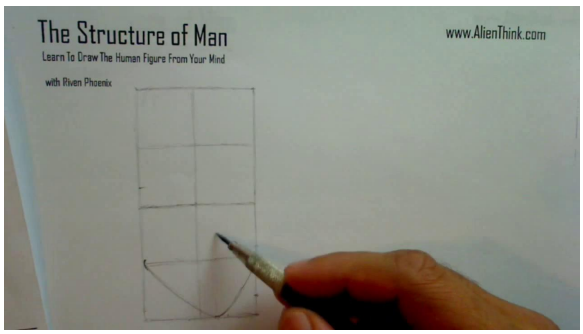
61		And then over here this line is always just going to curve out and go in this way, right?
62		So visually you can see how in the idea for the formula we're putting this together,
63		so you'll see that this was the center and it's really over here, a little bit over here
64		to the center.

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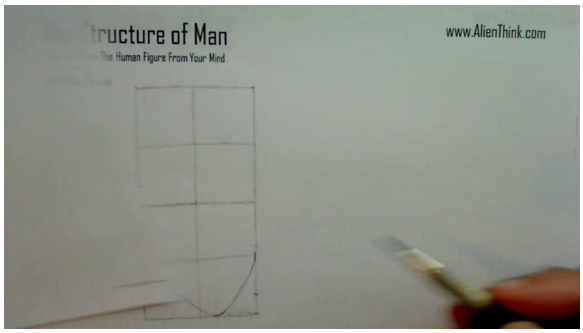
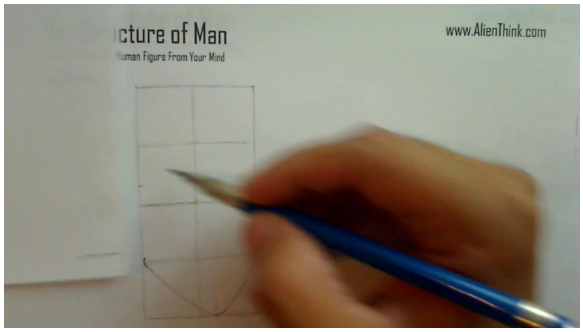
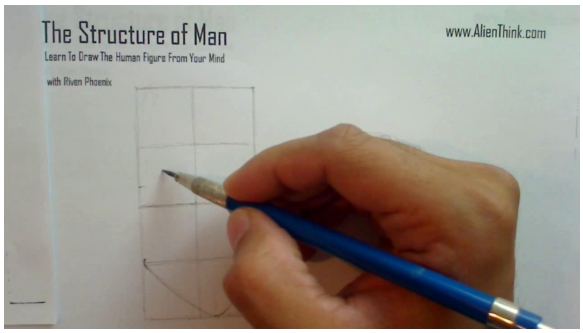
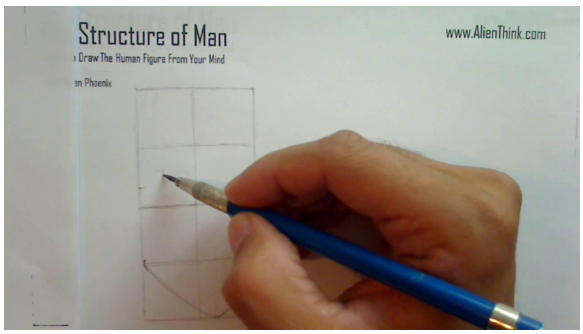
65		Okay, so once we have this, we know that over here, this guy here, where does he really
66		need to go?
67		So here, we're going to say that okay, well when you have the center over here, right,
68		right when you have the center you're going to go like this and then you're going to

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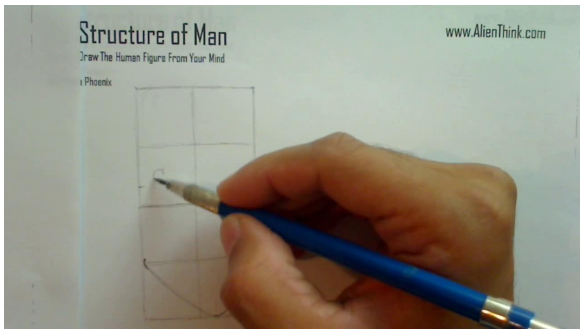
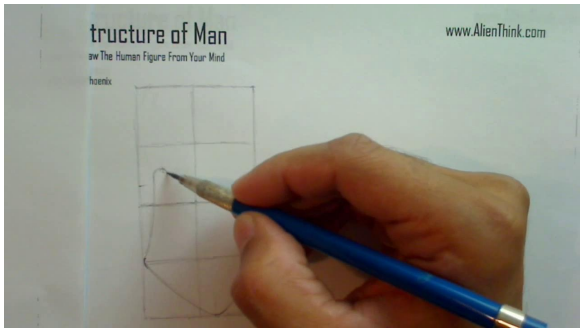
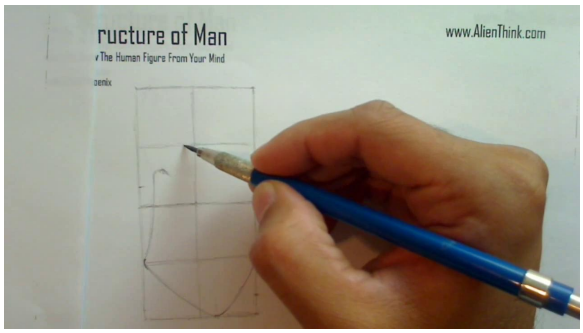
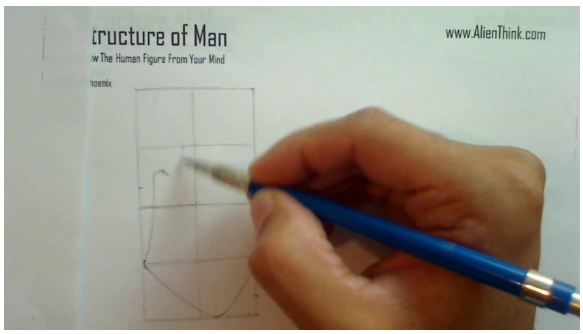
69		come back over here just like this and this will give you like this piece of bone that
70		sticks out and it's going to go kind of like this and it's going to go near here over
71		here.
72		Okay, so it's just going to be like this and it's going to go all the way in the back,

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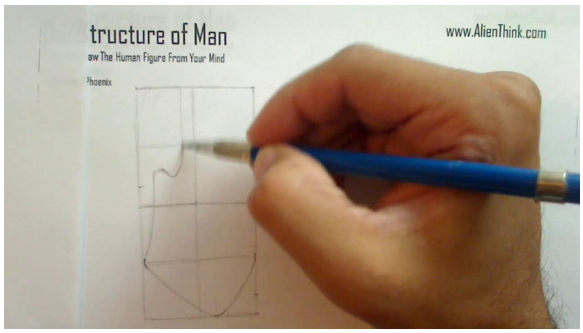
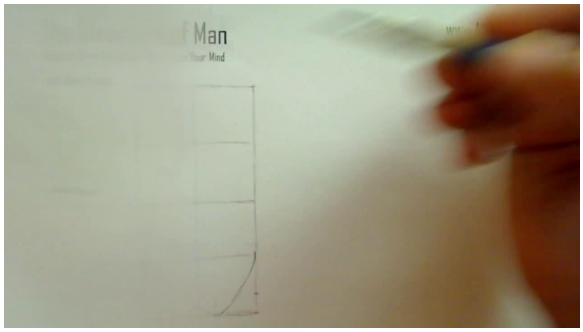
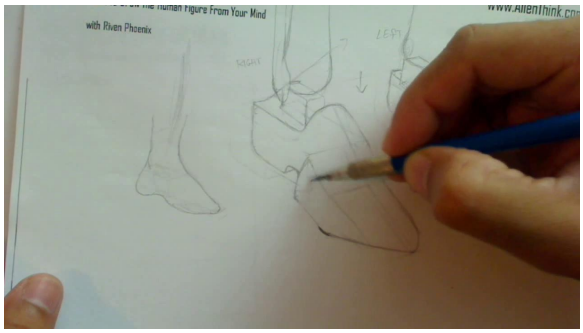
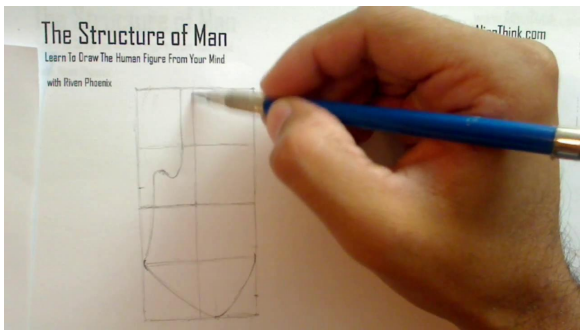
73		right?
74		So what we did was from here, we're saying that this bone is really in three-dimensionally
75		going like this and it's going back, okay, this guy over here.
76		So here we had stated that right over here, it's really like the half of this.

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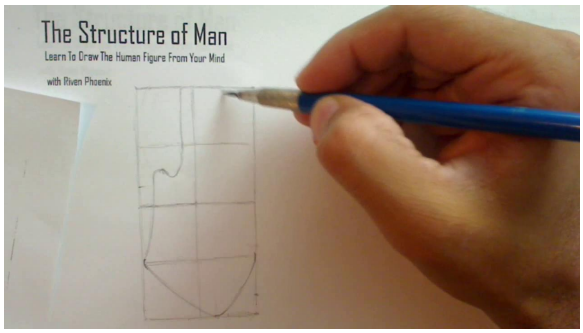
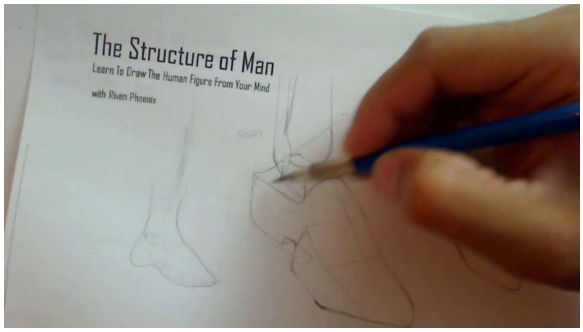
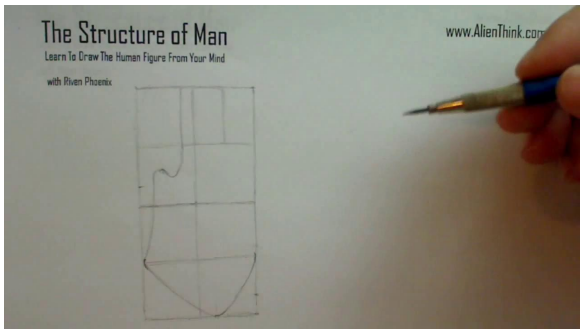
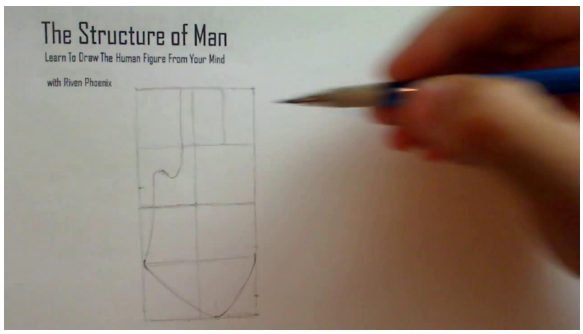
77		You can make like the half of this and come back down over here just this way, right?
78		And this is something we had done over here when we had divided this.
79		Okay.
80		So now the other thing is that we now need to do like this curve over here that's really

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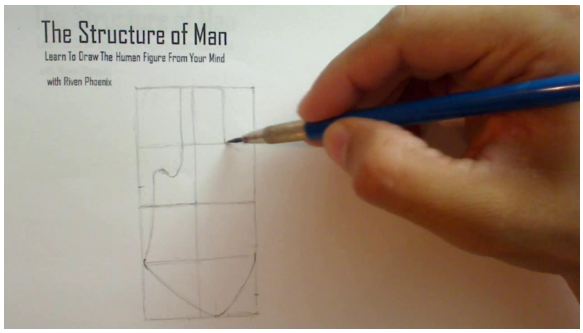
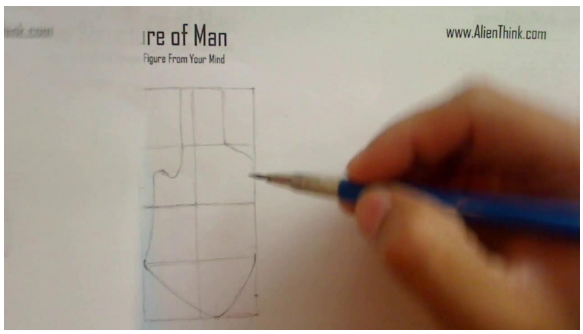
81		just going to go like this, let's say, okay, so over here what we're talking about is
82		that over here really this idea here should really be like a curve over here which we
83		right on the other side, so we're looking at the other side here.
84		So this curve really just needs to go like this and be like this over here, right?

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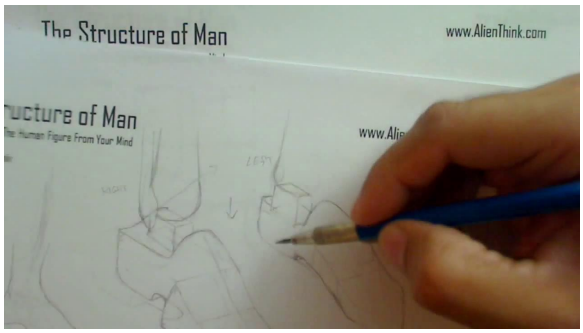
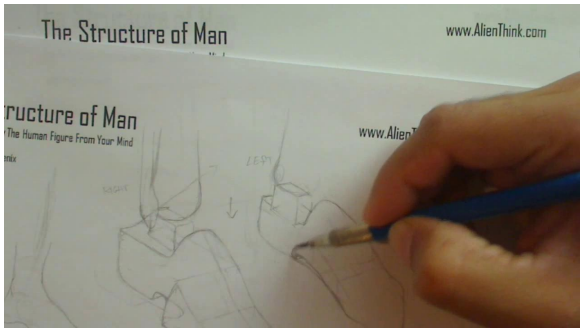
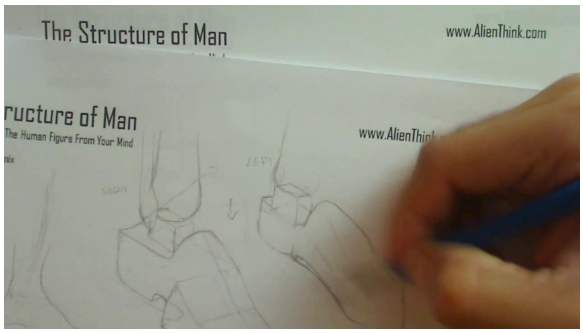
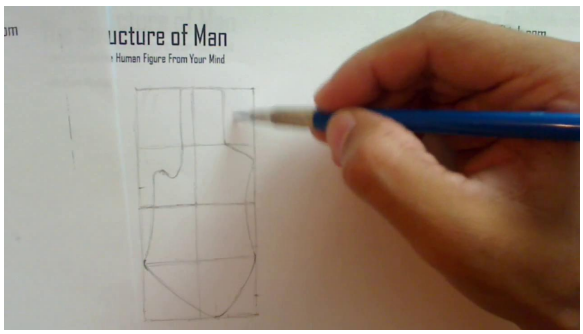
85		So over here, when we get this idea here, we haven't really put it, so here we're just
86		going to add it over here that it's just going to, but the thing is that with this curve
87		is we, this is already coming on a curve is that it's going to be so slight over here,
88		right?

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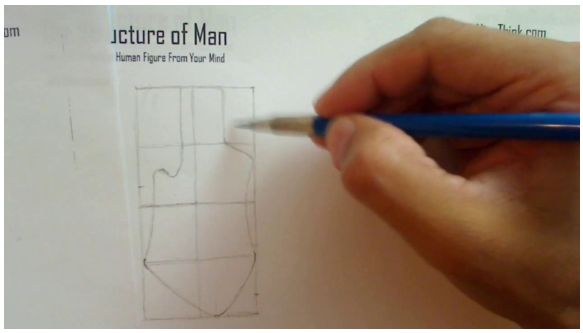
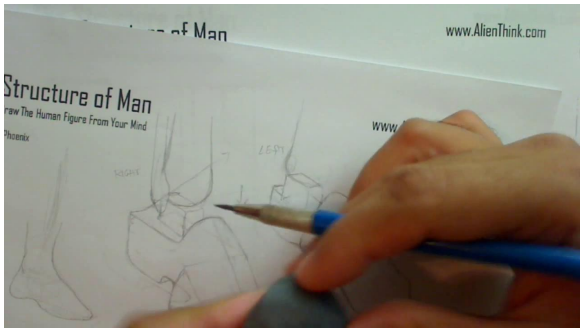
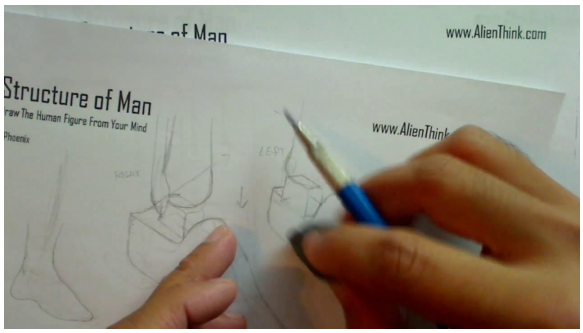
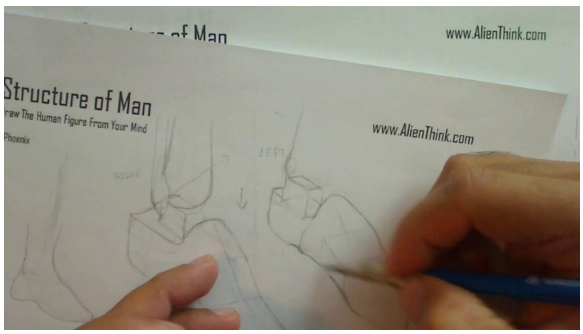
89		You're going to get your muscles over here that you really can't see it, so this is fine
90		in that idea.
91		So you're going to erase this and just say that okay, I mean, it's going to be like
92		this very small tiny curve over here, right?

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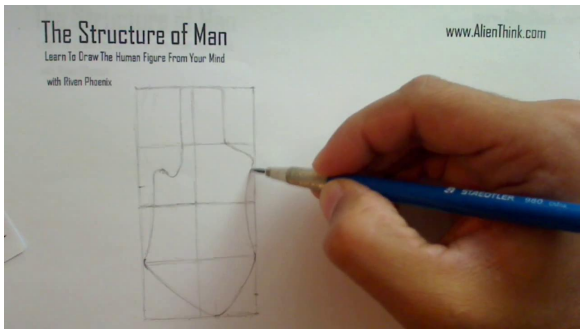
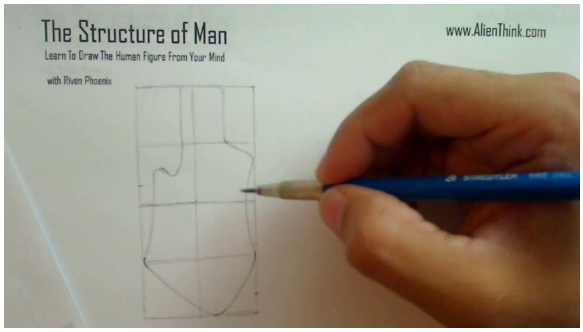
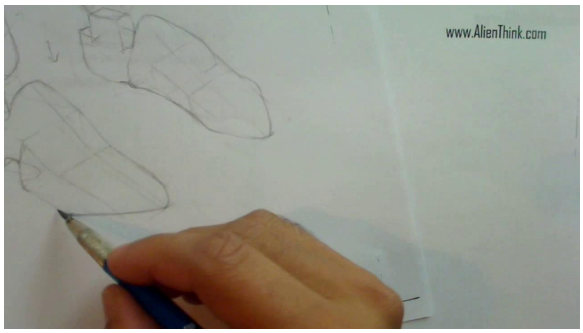
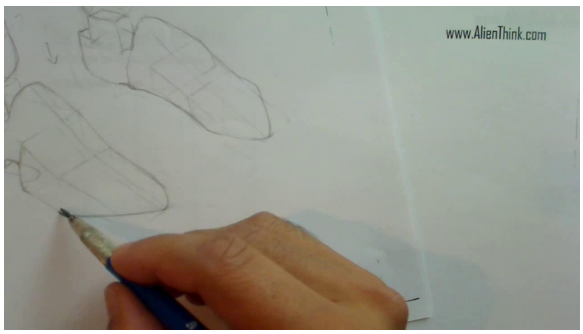
93		And that's really all there is to understanding this from the top.
94		So the other thing is that we now need to make like a line here to where should the toes
95		be, right?
96		How are we going to cut this, right?

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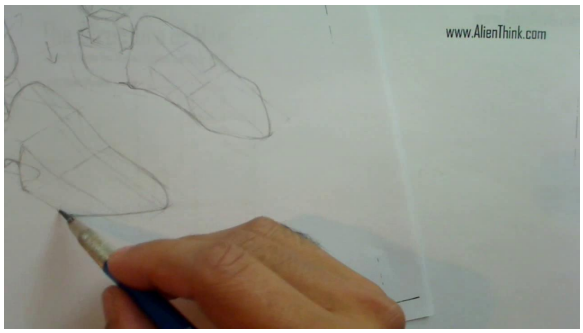
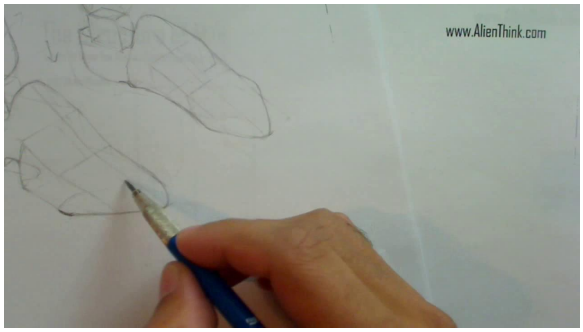
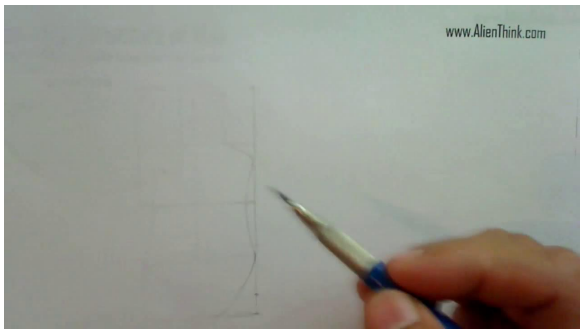
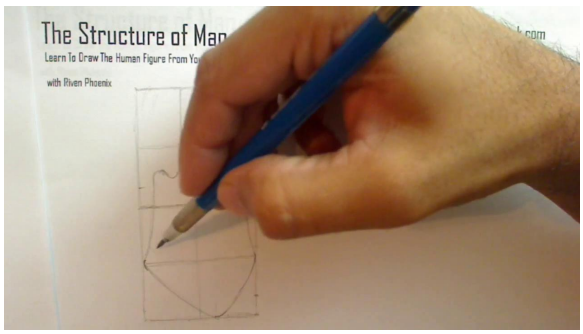
97		So which we haven't done, so what we're going to do is that we're just going to take
98		this and say that this is how it should be like this to where your fingers and toes
99		should be, meaning that you can just come up, up above this like this and just end up
100		over here like this, right?

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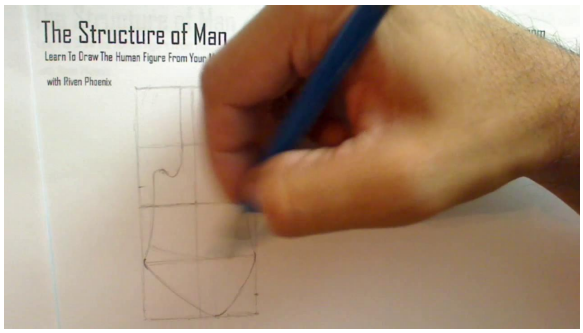
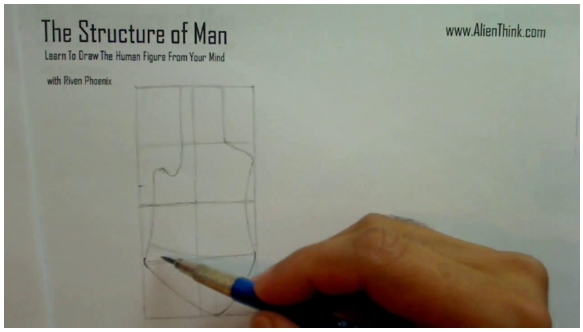
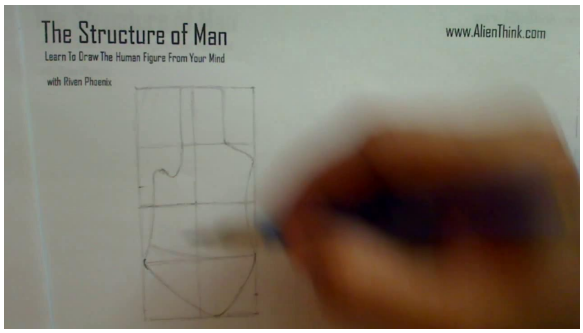
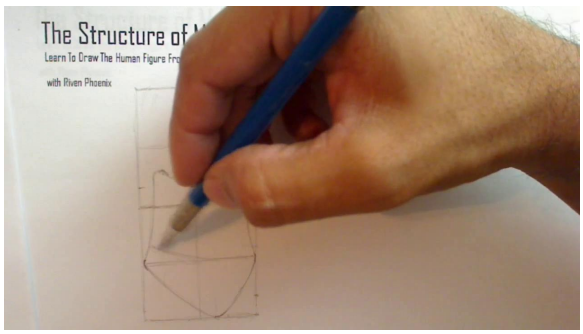
101		So just know that there is a curve over here, right?
102		So all the fingers of the toes are going to be here and your big toes is going to be
103		here, right?
104		So this is that line to where all the knuckles are basically going to be, right?

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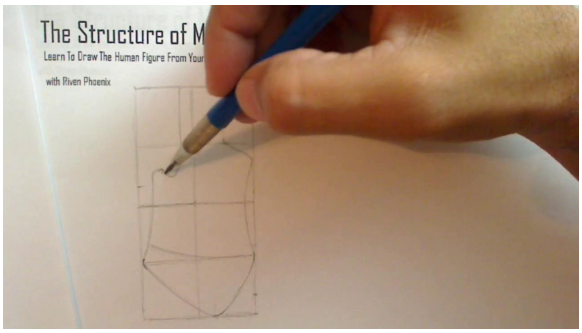
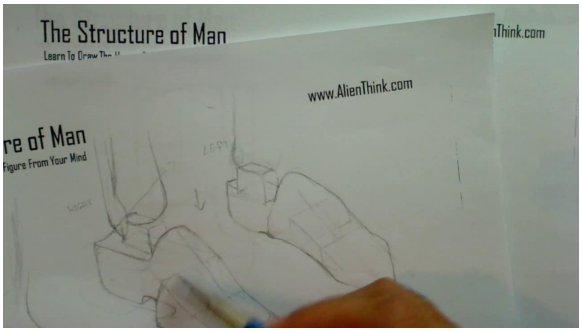
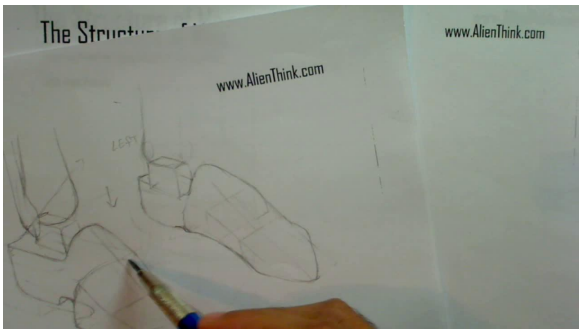
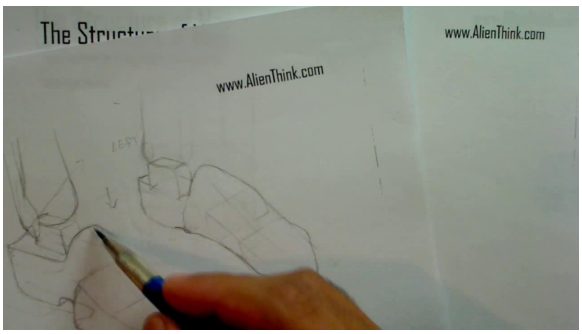
105		And then from here, we'll just make another line over here saying that this is that line
106		over here because it's, remember, it nudges out and it's just going to be like this and
107		going kind of inward, right?
108		Because you're going to get that area over here and this is where that area is, right?

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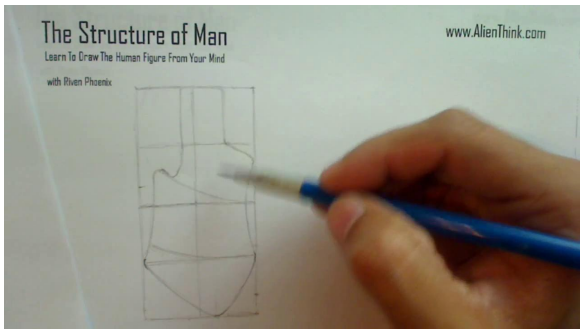
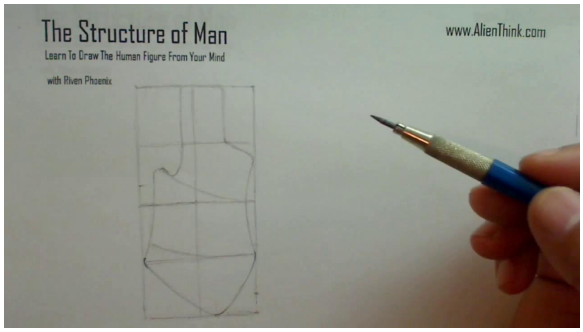
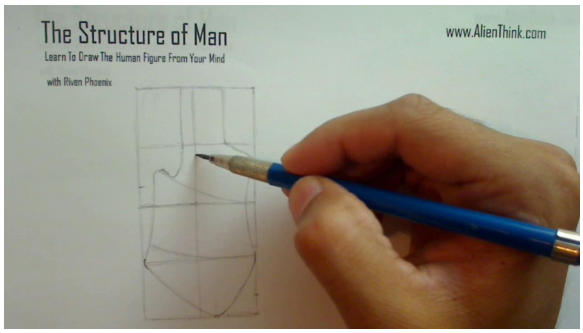
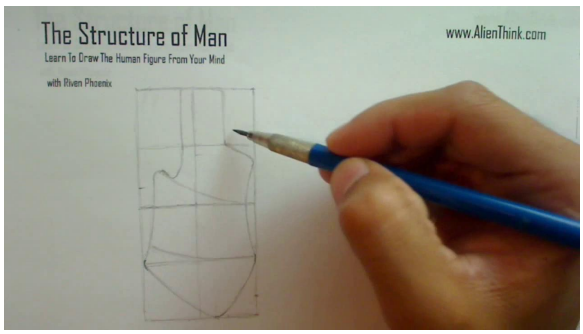
109		So the only thing left now is this joint over here, right?
110		So this joint over here is going to be nothing more than just taking this idea and coming
111		down a little more, right?
112		And you're going to come out a little more from here and just put this block of wood

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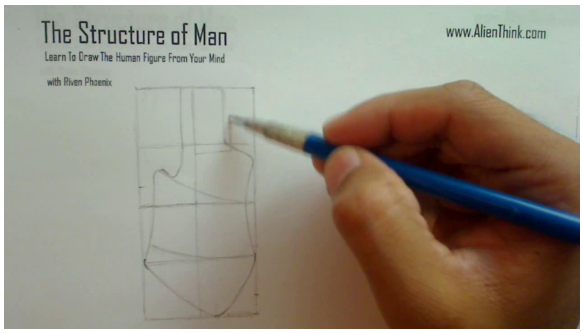
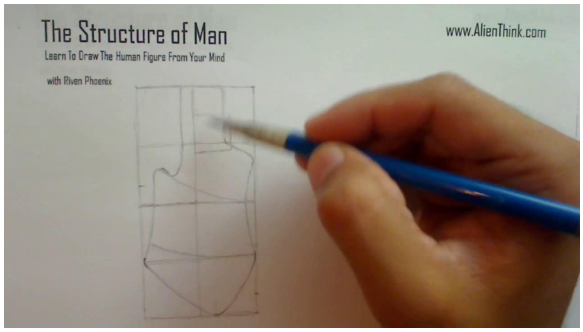
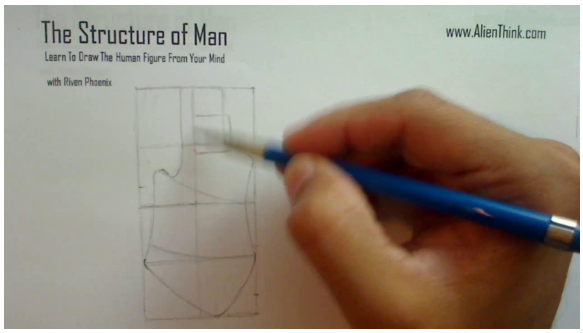
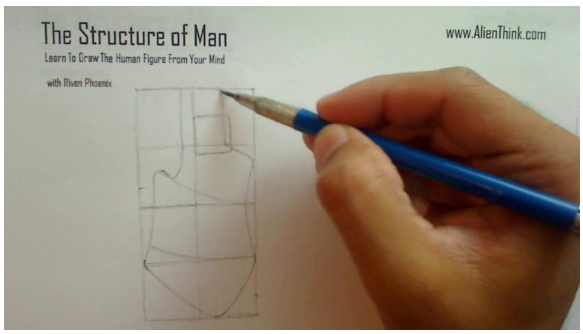
113		about here and then halfway of this, we can just add this piece of wood over here.
114		Right, so it's going to come out a little bit.
115		So this is where the tibia is going to be connected, right?
116		So this is like a most basic concept of the foot, right?

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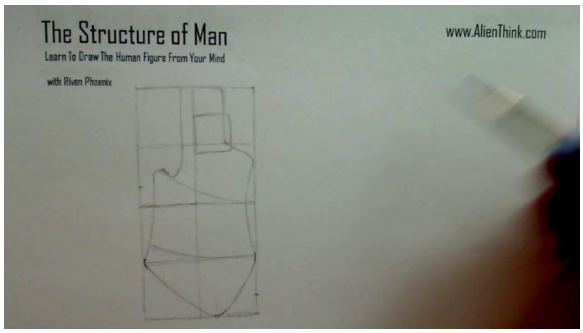
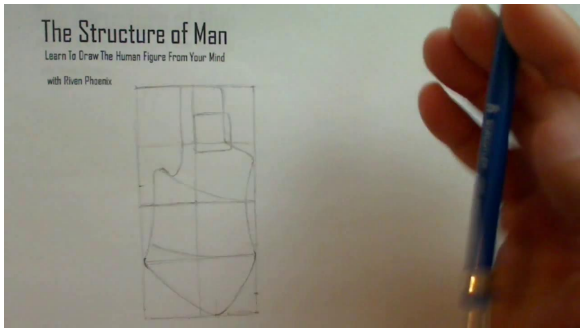
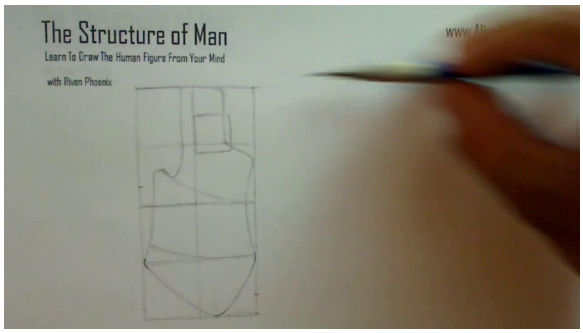
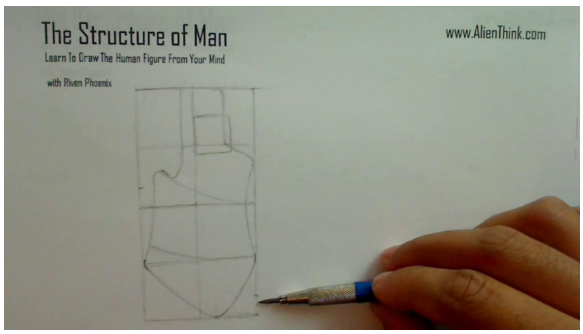
117		So obviously we can just repeat this on the other side for the other foot, right?
118		So for this, we'll just take this here and it's good to take your mind through that experience
119		also in just flipping the formulas around.
120		We're just measuring out the scene about the same distance over here, right?

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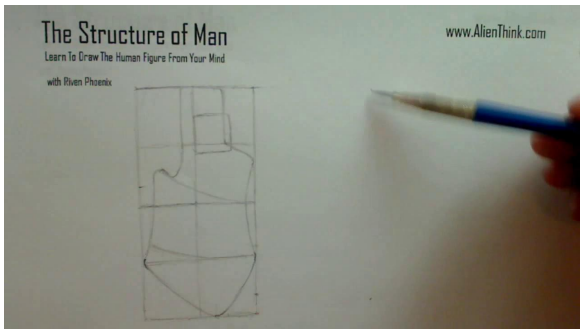
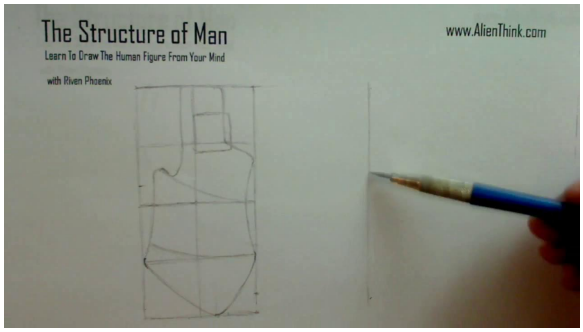
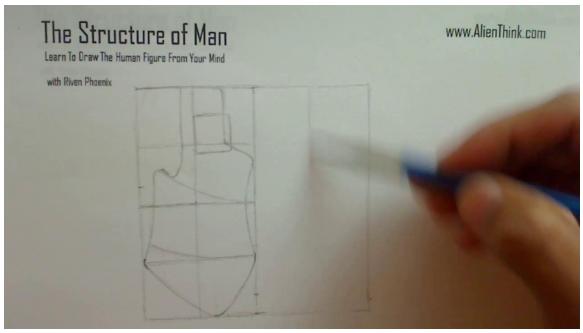
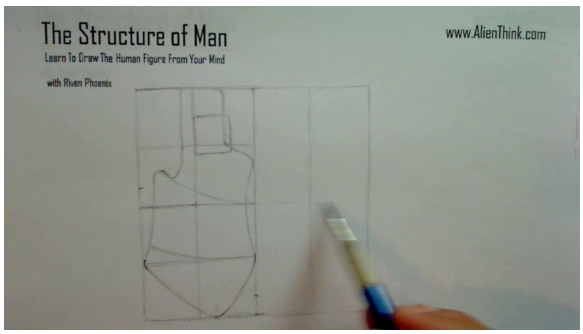
121		So here I'm just going to go down a little bit straight down over here, again, we just
122		need to be conceptual about this again, going this way here, right?
123		And the idea is that now when we're drawing it out freehand, we'll understand how this
124		formula is working.

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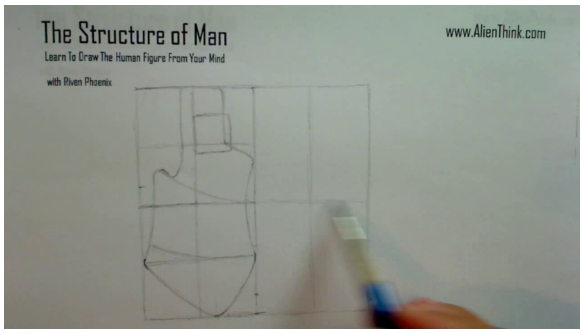
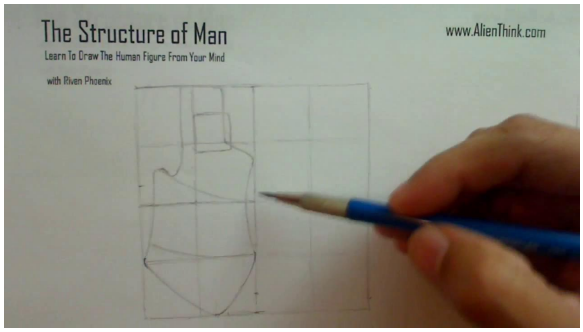
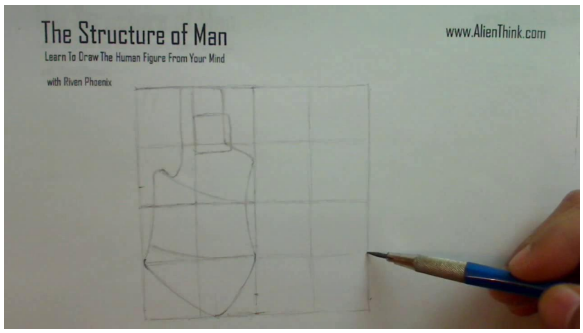
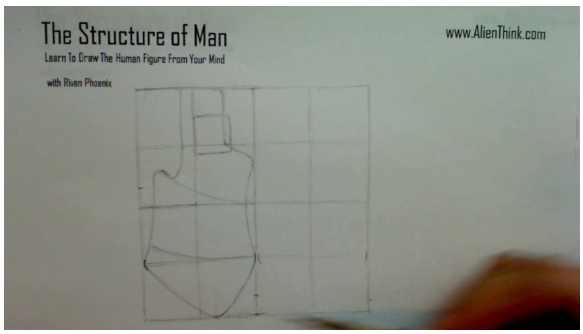
125		Okay, so here I'm just going to do the same thing, right?
126		So if you look at this, it's really just repeating now, right?
127		We know that we just do the nodge over here, nodge over here, and we know that if the
128		toe is here, obviously we're going to be looking at this end over here, it's going to be

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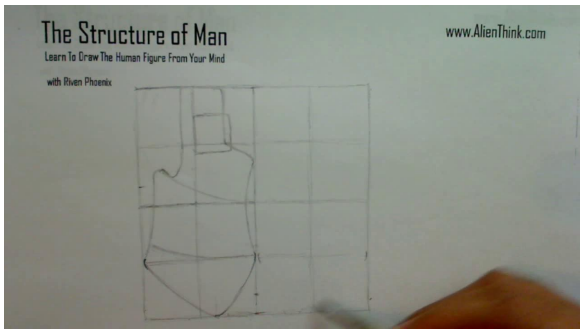
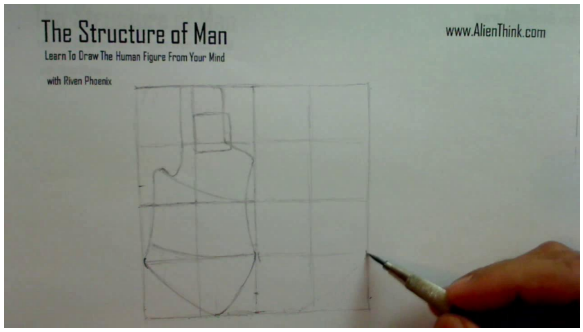
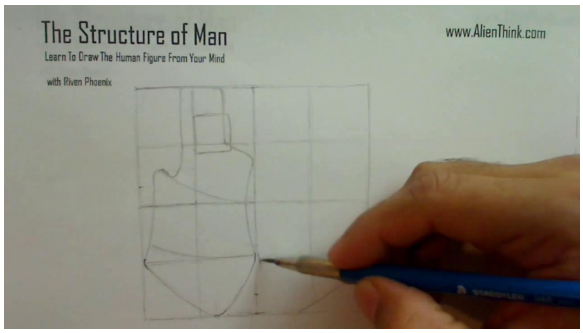
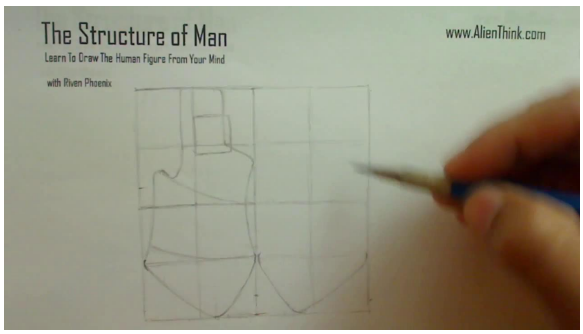
129		here, right?
130		So you're going to make that curve on this side, right?
131		And this is just going to end up like this, right?
132		And this guy here, we said, well, I mean, if you're about here, just make this line and

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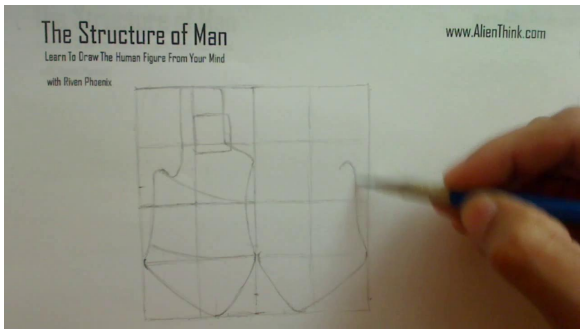
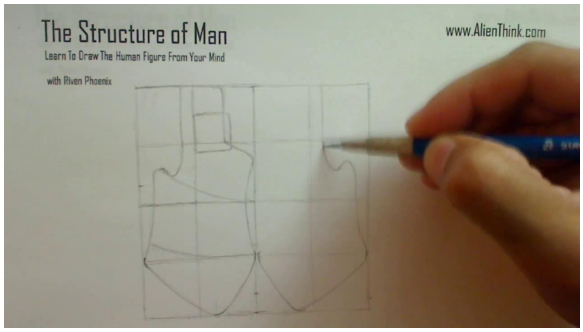
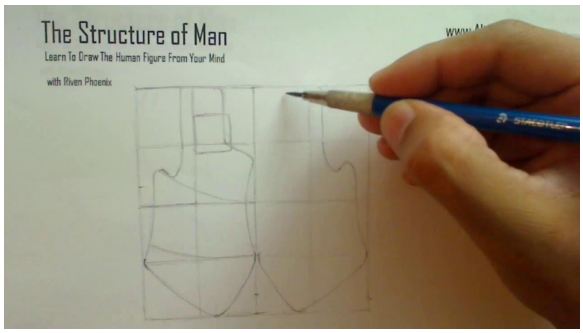
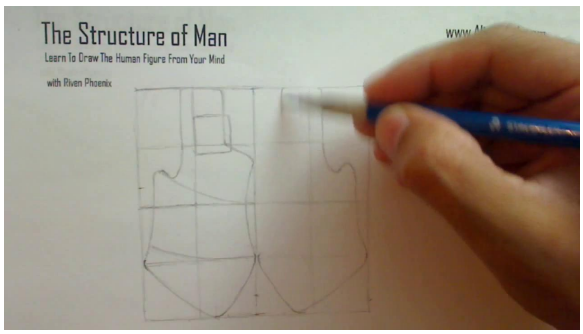
133		come in this way, and then this line is just going to be going in this way and you're
134		done, right?
135		There's really nothing more to this than this.
136		And when you come over here, we know that we're just going to go in this direction over

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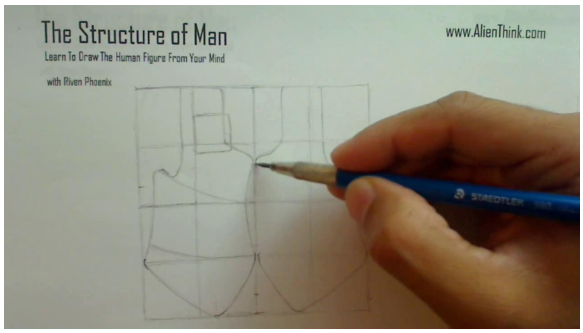
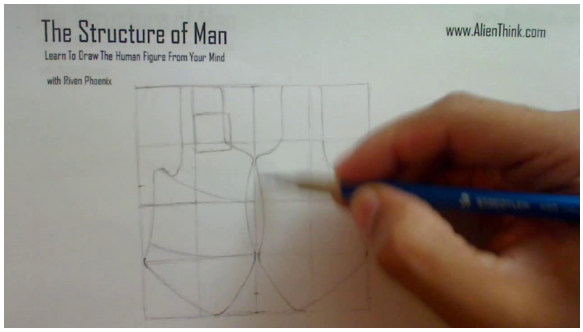
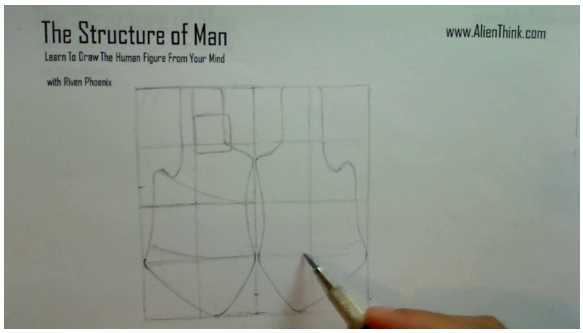
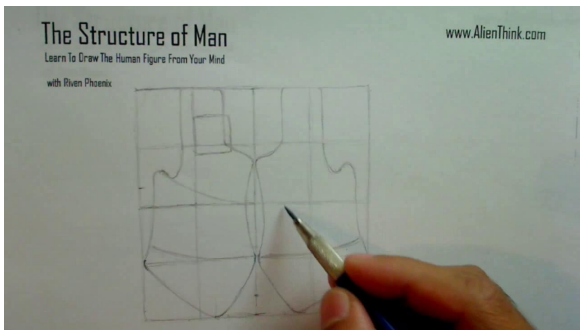
137		here, we're going to just sweep in, right?
138		That's how easy that formula is.
139		And we know that we just need to swing this like this, to understanding how the toes
140		are going to be, and over here, from here we're just going to do the same thing, and

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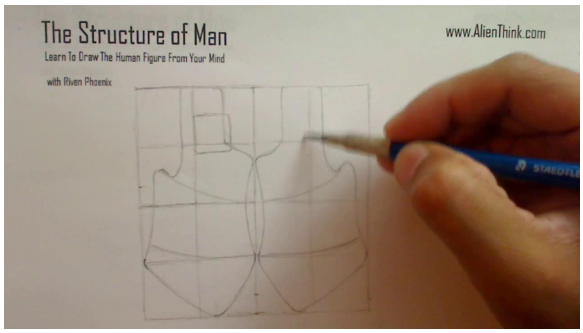
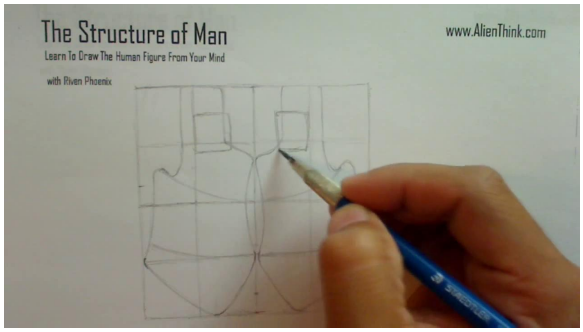
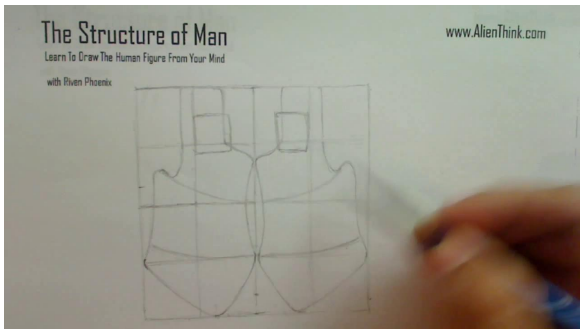
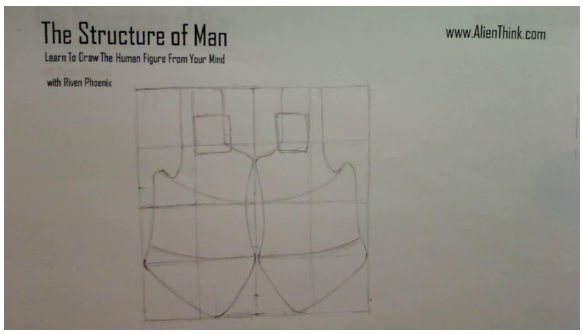
141		this is the same thing over here, just come about here like this and put that idea here.
142		Okay, right?
143		So here, just sketch that for out.
144		Right?

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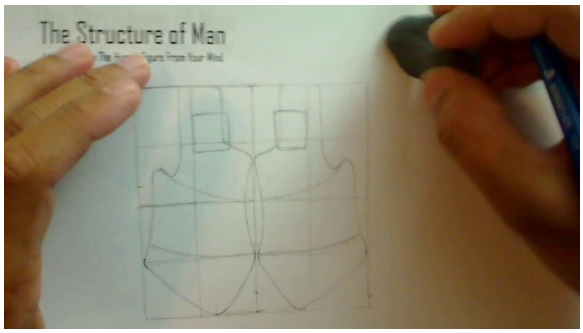
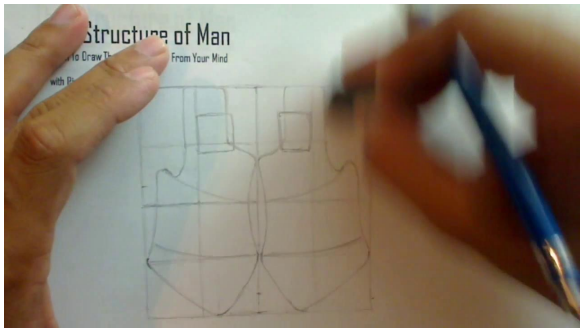
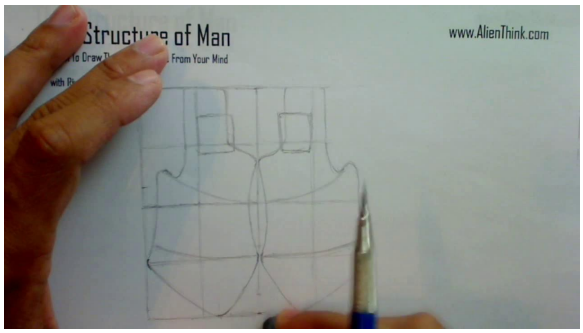
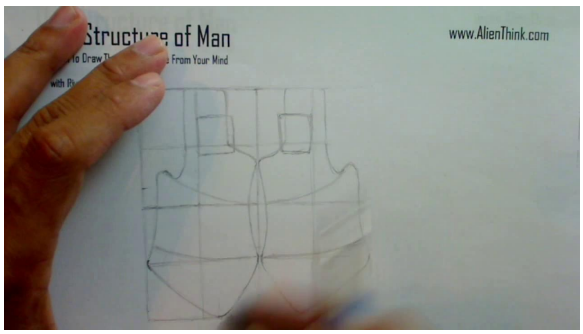
145		So now we can, we understand how this works.
146		So we can get rid of these formulas just to see how the minds start to see these ideas
147		here.
148		Right?

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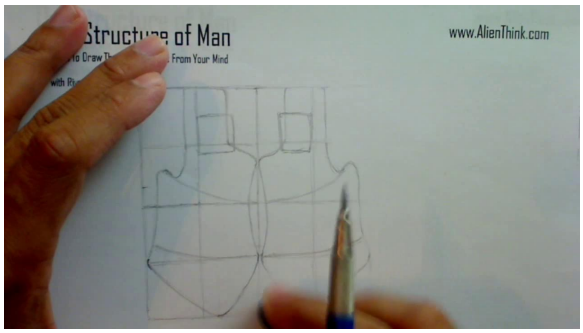
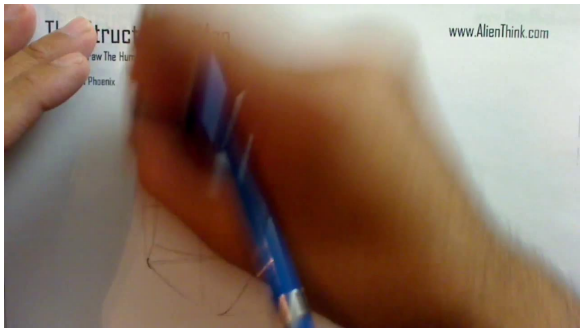
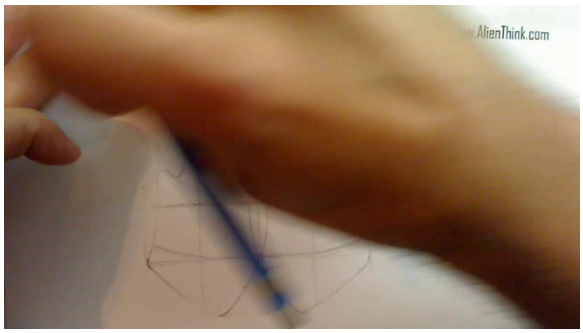
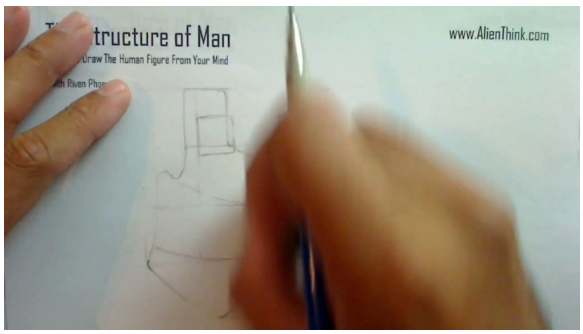
149		How this is now going to be working.
150		Okay.
151		And then we can erase all this stuff here in the middle.
152		Okay, now you can see how the foot is going to be looking like, right?

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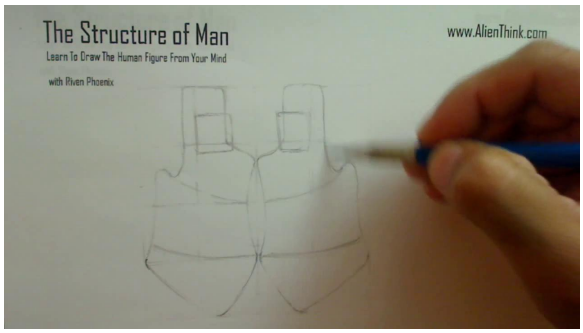
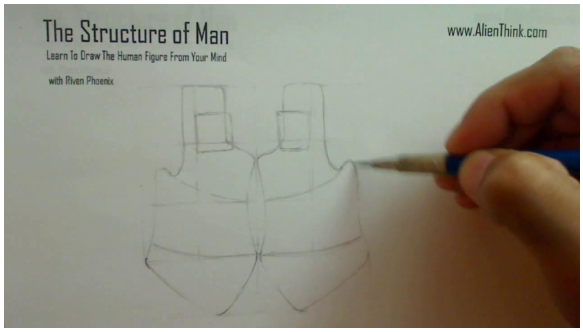
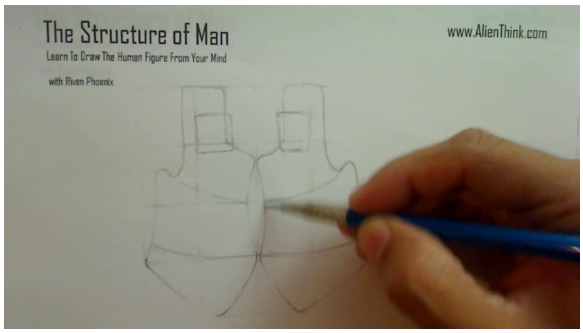
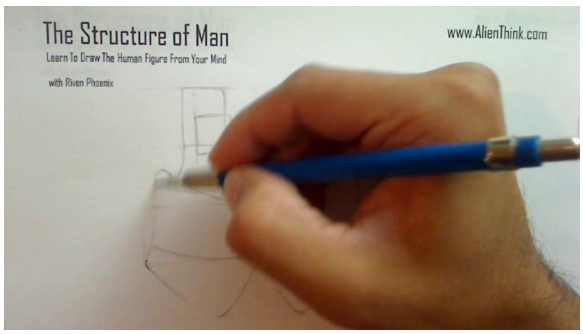
153		Using their formulas.
154		So this just start to make sense in that 3D ideas to how we were able to form that from
155		the top.
156		Okay, so what we'll do in the next lesson, we're going to look at this from the side view,

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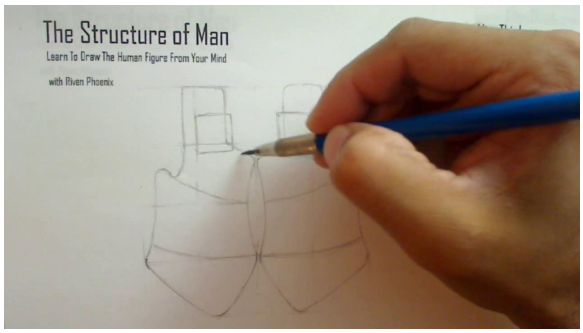
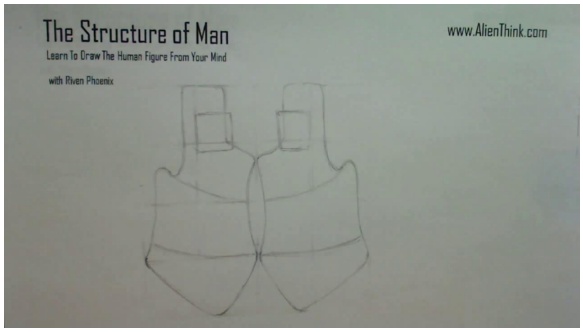
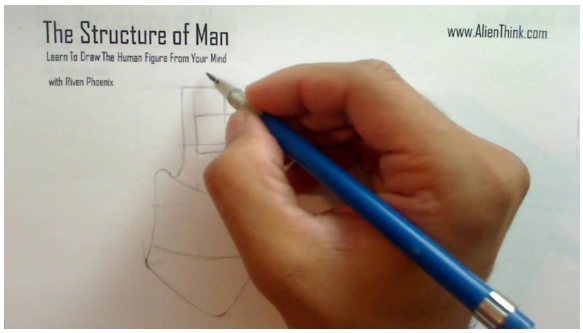
157		we can understand this a little more better.
158		Right?
159		So this is going to be the right.
160		And this is going to be the left.

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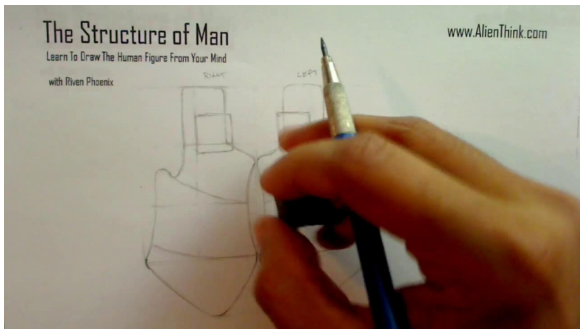
161		Okay, so I'll see you in the next lesson.

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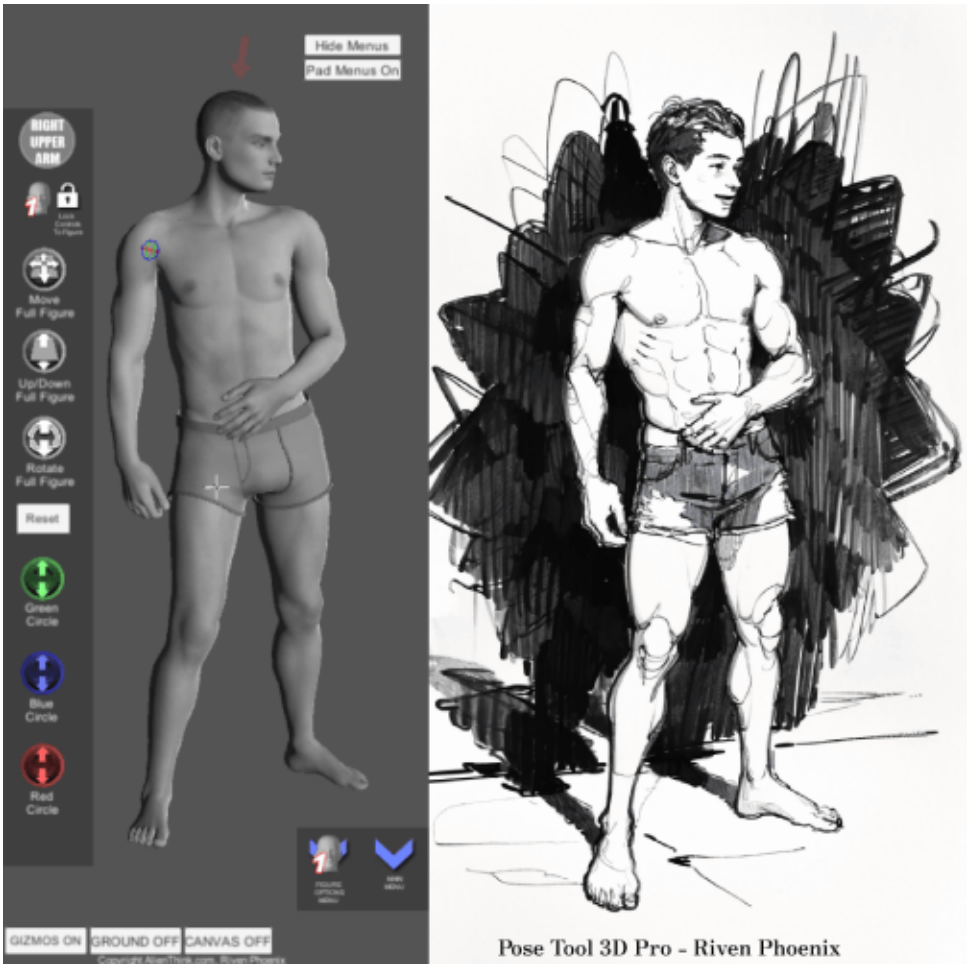

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